

TRIPURA GAZETTE



Published by Authority

EXTRAORDINARY ISSUE

Agartala, Friday, November 4, 2022 A. D., Kartika 13, 1944 S. E.

PART--I-- Orders and Notifications by the Government of Tripura,
The High Court, Government Treasury etc.

**GOVERNMENT OF TRIPURA
HEALTH & FAMILY WELFARE DEPARTMENT**

No.F.2(1-277)-MS/ESTT/2017(Sub-I)

Dated, Agartala, the 30th August, 2022.

NOTIFICATION

In exercise of the powers conferred by the proviso to the Article 309 of the Constitution and in supersession of the existing Recruitment rules for the post mentioned herein, the Governor, Tripura hereby makes the following rules regulating the method of recruitment to the post of Pharmacist (Allo) under the Health & Family Welfare Department, namely :-

1. Short title and commencement :-

- (i) These rules may be called the Recruitment Rules for Pharmacist (Allo) under the Health & Family Welfare Department, Government of Tripura ;
- (ii) They shall come into force on and from the date of their publication in the Official Gazette.

2. The name of the post shall be as specified in Sl. No. 1 of the Schedule annexed hereto.

3. Number, classification and scale of pay :-

The number of the said post, its classification and the scale of pay attached thereto shall be as specified in Sl. No. 2 to 4 of the Schedule annexed hereto.

4. Method of recruitment, age limit, qualification etc. :-

The method of recruitment to the said post, age limits, qualifications and other matters relating to the said post shall be as specified in Sl. No. 5 to 14 of the said Schedule.

5. Disqualification :-

- No person – (a) who has entered into or contracted a marriage with a person having spouse living ; or
(b) who, having a spouse living, has entered into or contracted a marriage with any person, shall be eligible for appointment to the said post.
-

Provided that the State Government may, if satisfied that such marriage is permissible under the personal law applicable to such person and the other party to the marriage and that there are other grounds for so doing, exempt any person from the operation of this rule.

6. Power to relax :-

Where the State Government is of the opinion that it is necessary or expedient so to do, it may, by order, for reasons to be recorded in the writing, relax any of the provisions of these rules with respect to any class or category of persons.

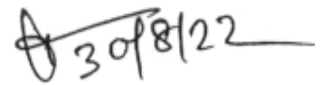
7. Repeal :- The Recruitment Rules for the post of Pharmacist (Allo) existing in the Department are hereby repealed with immediate effect and are replaced by these Recruitment Rules.

8. Savings :-

Nothing in these rules shall affect reservations, relaxation of age limit and other concessions required to be provided for the Scheduled Castes, the Scheduled Tribes, Ex-Servicemen and other special categories of persons in accordance with the Orders issued by the State Government from time to time in this regard.

9. This Notification is issued as per the provisions of the Memorandum of the GA (P&T) Deptt., Govt. of Tripura, issued vide No. F.20(1)-GA(P&T)/18, dated 2nd Jan 2021, and the subsequent Notifications of even no. Dated 17th February, 2021.

By order of the Governor

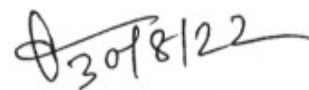


Deputy Secretary to the
Government of Tripura

SCHEDULE

- | | |
|---|--|
| 1. Name of the Post | :- Pharmacist (Allopathy) |
| 2. Number of the Post(s) | :- 739 (Seven hundred thirty nine) plus additional posts as and when created |
| 3. Classification | :- Group – C, Non-Gazetted |
| 4. Scale of Pay | :- Pay Level – 9 under Tripura State Civil Services (Revised Pay) Rules, 2018, read with its amendment(s) subject to revision from time to time. |
| 5. Method of recruitment whether by direct recruitment or by promotion or by transfer on deputation and percentage of the vacancies to be filled by various methods | <p>:- 100% by direct recruitment through written examination followed by the Interview. The written examination will carry 85 marks and the Interview 15 marks. Questions in the written examination will only be of MCQ type in English language on the following subjects mentioned in the ANNEXURE-A hereto.</p> <p>Examination shall be conducted by the Joint Recruitment Board, Tripura, as per the new recruitment policy of the Govt. of Tripura, notified by the G.A. (P&T) Dept. vide no. F.20(1)-GA(P&T)/18, dated 5th June 2018, read with the subsequent Notifications of even no. dated 29th October 2020, and 17th February, 2021.</p> |
| 6. Age limit for direct recruitment | :- 18 to 40 years upper age limit relaxable by 5 years for SC, ST, PH, Ex-serviceman and Government Servants. |
| 7. Education and other Qualifications required for direct recruitment | <p>:- 1. H.S(+2 Stage) with Science passed from any recognized institute and</p> <p>2.i) Diploma in Pharmacy from an institute recognized by PCI.</p> <p style="text-align: center;">OR</p> <p>ii) Bachelor in Pharmacy or Bachelor in Pharmacy (Practice) from an institute recognized by PCI</p> <p>3. Registered as Pharmacist with the Tripura State Pharmacy Council with valid registration certificate issued by the Council.</p> <p>4. Desirable qualification: Knowledge in Bengali or Kokborok.</p> |

8. Whether age and educational qualifications prescribed for direct recruits will apply in case of promotion Not applicable
9. Whether Selection post or Non-selection post :- Selection post.
10. Period of probation, if any :- 2(two) years
11. In case of recruitment by promotion / transfer on deputation, grades from which promotion / transfer on deputation is to be made :- Not applicable
12. If a DPC exists, what is its composition? :- Not applicable
13. Circumstances in which TPSC is to be consulted in making recruitment :- Not applicable
14. Repeal :- Existing Recruitment Rules for the post of Pharmacist (Allo) under Health & Family Welfare Department, Government of Tripura Notification No. F.2 (1-151)-MS/ESTT/2002(xiii), dated 30/03/2004 shall stand repealed.



Deputy Secretary to the
Government of Tripura

Annexure-A
-GOVERNMENT OF TRIPURA
HEALTH AND FAMILY WELFARE DEPARTMENT
ANNEXURE-A
SYLLABUS OF COMPETATIVE EXAMINATION FOR THE POST OF PHARMACIST
(ALLOPATHY)

1. PHARMACEUTICS-I:

20marks

Metrology-System of weights and measures. Calculations including conversion from one to another system. Percentage calculations and adjustment of products .Use of alligation method in calculations.Isotonic solutions.

Sterilization-Concept of sterilization and its differences from disinfection-Thermal resistance of microorganisms. Detailed study of the following sterilization process. Sterilization with moist heat, Dry heat sterilization, Sterilization by radiation, Sterilization by filtration and Gaseous sterilization.

Aseptic techniques-Applications of sterilization process in hospitals particularly with reference to surgical dressings and intravenous fluids. Precautions for safe and effective handling of sterilization equipment.

Processing of Tablets-Definition; different type of compressed tables and their properties. Processes involved in the production of tablets; Tablets excipients ; Defects in tablets; Evaluation of Tablets; Physical standards including Disintegration and Dissolution. Tablet coating-sugar coating; films coating, enteric coating and micro-encapsulation (Tablet coating may be de.. in an elementary manner).

Processing of Capsules-Hard and soft gelatin capsules; different sizes of capsules; filling of capsules; handling and storage of capsules. Special applications of capsules.

Prescriptions-Reading and understanding of prescriptions; Latin terms commonly used (Detailed study is not necessary), Modern methods of prescribing, adoption of metric system. Calculations involved in dispensing.

Incompatibilities in prescriptions- study of various types of incompatibilities-physical, chemical and therapeutic.

Posology- Dose and dosage of drugs, factors influencing dose, calculations of doses on the basis of age, sex, surface area and veterinary doses.

Suspensions (elementary study)-Suspensions containing diffusible solids and liquids and their preparations. Study of the adjuvant used like thickening agents, wetting agents, their necessity and quantity to be incorporated ,suspensions of precipitate forming liquids like tinctures, their preparations and stability. suspensions produced by chemical reaction. An introduction to flocculated /non-flocculated suspension system.

Emulsions-Types of emulsions, identification of emulsion system, formulation of emulsions, selection of emulsifying agent. Instabilities in emulsions, preservation of emulsions.

Parenteral dosage forms-Definition, General requirements for parenteral dosage forms. Types of parenteral formulations, vehicles, adjuvant, processing and personnel, Facilities and quality control. Preparation of Intravenous fluids and admixtures-Total parenteral nutrition, Dialysis fluids.

2. PHARMACEUTICAL CHEMISTRY-I

15 marks

Acids, bases and buffers-Boric acid, Hydrochloric acid, Strong Ammonium hydroxide, Sodium hydroxide and official buffers.

Gastrointestinal agents-

Acidifying agents- Dilute Hydrochloric acid.

Antacids- Sodium bicarbonate, Aluminum hydroxide gel, Aluminum phosphate, Calcium carbonate, Magnesium carbonate, Magnesium trisilicate, Magnesium oxide, Combinations of antacid preparations.

Protective and Adsorbents- Bismuth sub carbonate and Kaolin.

Saline cathartics- Sodium potassium tartrate and Magnesium sulphate.

Antimicrobials and Astringents- Hydrogen peroxide, Potassium permanganate, Chlorinated lime, Iodine, Solutions of Iodine, Povidone-iodine, Boric acid, Borax, Silver nitrate, Mild silver protein, Mercury yellow, Mercuric oxide, Ammoniated mercury.

Sulphur and its compounds- Sublimed sulphur, Precipitated sulphur, Selenium sulphide.
stringents- Alum and Zinc Sulphate.

Major Intra and Extra cellular electrolytes-

Electrolytes used for replacement therapy- Sodium chloride and its preparations, Potassium chloride and its preparations.

Physiological acid-base balance and electrolytes used- Sodium acetate, Potassium Acetate, Sodium bicarbonate Inj., Sodium citrate, Potassium citrate, Sodium lactate injection, Ammonium chloride and its injection.

Combination of oral electrolyte powders and solutions.

Structure, uses, and storage of the following organic compounds.

Antibiotics- Benzyl penicillin, Phenoxymethyl penicillin, Benzathine penicillin, Ampicillin, Cloxacillin, Carbenicillin, Gentamicin, Neomycin, Erythromycin, Tetracycline, Cephalixin, Cephaloridine, Cephalothin, Griseofulvin, Chloramphenicol.

Antifungal agents- Undecylenic acid, Tolnaftate, Nystatin, Amphotericin, Hamycin.

Antimalarial Drugs- Chloroquine, Amodiaquine, Primaquine, Proguanil, Pyrimethamine, Quinine, Trimethoprim.

General Anaesthetics- Halothane, Cyclopropane, Diethyl ether, Methohexital sodium, Thiopental sodium, Trichloroethylene.

Antidepressant Drugs- Amitriptyline, Nortriptyline, Imipramine, Pheipazine, Tranlycypromine.

Analeptics- Theophylline, Caffeine, Coramine, Dextro-amphetamine.

Adrenergic drugs- Adrenaline, Noradrenaline, Isoprenaline, Phenylephrine, Salbutamol, Terbutaline.

Cardiovascular Drugs- Ethylnitrite, Glyceryl trinitrate, Alpha methyl dopa, Guanethidine, Clofibrate, Quinidine.

Anti-Neoplastic Drugs- Actinomycin, Azathioprine, Busulphan, Chlorambucil, Cisplatin, Cyclophosphamide, Daunorubicin Hydrochloride, Fluorouracil, Mercaptopurine, Methotrexate, Mytomycin.

3. PHARMACOGNOSY

5 marks

Adulteration and drug evaluation; significance of pharmacopoeial standards.

Pharmaceutical aids- Honey, Arachis oil, starch, kaolin, pectin, olive oil. Lanolin, Beeswax, Acacia, Tragacanth, sodium Alginate, Agar, Guar gum, Gelatin.

Miscellaneous- Liquorice, Garlic, picrorhiza, Dipsacoreia, Linseed, shatavari, shankhpushpi, pyrethrum, Tobacco.

4. BIOCHEMISTRY AND CLINICAL PATHOLOGY

5 marks

Carbohydrates: Brief chemistry and role of carbohydrates, classification, qualitative tests, Diseases related to carbohydrate metabolism.

Lipids: Brief chemistry and role of lipids, classification and qualitative tests. Diseases related to lipids metabolism.

Vitamins: Brief chemistry and role of vitamins and coenzymes. Role of minerals and water in life processes.

Enzymes: Brief concept of enzymatic action. factors affecting it.

Therapeutics: Introduction to pathology of blood and urine. Lymphocytes and platelets, their role in health and disease. Erythrocytes-Abnormal cells and their significance. Abnormal constituents of urine and their significance in diseases.

5. HUMAN ANATOMY AND PHYSIOLOGY

10 marks

Skeletal System: Structure and function of Skeleton. Classification of joints and their function. Joint disorders.

Cardiovascular System: Composition of blood, functions of blood elements. Blood group and coagulation of blood. Brief information regarding disorders of blood. Name and functions of lymph glands. Structure and functions of various parts of the heart. Arterial and venous system with special reference to the names and positions of main arteries and veins. Blood pressure and its recording. Brief information about cardiovascular disorders.

Respiratory system: Various parts of respiratory system and their functions, physiology of respiration.

Urinary System: Various parts of urinary system and their functions, structure and functions of kidney. Physiology of urine formation. Patho-physiology of renal diseases and edema.

Muscular System: Structure of skeletal muscle, physiology of muscle contraction. Names, positions, attachments and functions of various skeletal muscles. physiology of neuromuscular junction.

Central Nervous System: Various parts of central nervous system, brain and its parts, functions and reflex action. Anatomy and physiology of automatic nervous system.

Sensory Organs: Elementary knowledge of structure and functions of the organs of taste, smell, ear, eye and skin. Physiology of pain.

Digestive System: names of various parts of digestive system and their functions. structure and functions of liver, physiology of digestion and absorption.

Endocrine System: Endocrine glands and Hormones. Location of glands, their hormones and functions. pituitary, thyroid. Adrenal and pancreas.

Reproductive system: Physiology and Anatomy of Reproductive system.

6. HEALTH EDUCATION AND COMMUNITY PHARMACY

10 marks

Nutrition and health: Classification of foods, requirements, diseases induced due to deficiency of proteins, vitamins and minerals-treatment and prevention.

Demography and family planning: Demography cycle, fertility, family planning, contraceptive methods, behavioral methods, natural family planning methods, chemical methods, mechanical methods, hormonal contraceptives, population problem of India.

First aid: Emergency treatment in shock, snake-bite, burns, poisoning, heart disease, fractures and resuscitation methods, Elements of minor surgery and dressings.

Environment and health: Source of water supply, water pollution, purification of water, health and air, noise, light-solid waste disposal and control-medical entomology, arthropod borne diseases and their control. rodents, animals and diseases.

Fundamental principles of microbiology: Classification of microbes, isolation, staining techniques of organisms of common diseases.

Communicable diseases: Causative agents, mode of transmission and prevention. Respiratory infections chicken pox, measles, influenza, diphtheria, whooping cough and tuberculosis.

Intestinal infection-polioomyelitis, Hepatitis, cholera, Typhoid, food poisoning, Hookworm infection.

Arthropod borne infections-plague, Malaria, filariases.

Surface infection-Rabies, Trachoma, Tetanus, Leprosy.

Sexually transmitted diseases-Syphilis, Gonorrhoea, AIDS.

Non-communicable diseases: causative agents, prevention, care and control.

Epidemiology: Its scope, methods, uses, dynamics of disease transmission. **Immunity and immunization:** Immunological products and their dose schedule, Principles of disease control and prevention, hospital acquired infection, prevention and control. Disinfection, types of disinfection procedures, for-faces, urine, sputum, room linen, dead-bodies, instruments.

7. Medicinal Chemistry

5 marks

Cardio vascular drugs

Cardiotonics, Antiarrhythmic agents, Anti-anginal agents, Antihypertensive agents, peripheral Vasodilators and drugs used in atherosclerosis.

Drugs acting on the blood and blood forming organs. Haematinics, coagulants and anticoagulants, Haemostatic, Blood substitutes and plasma expanders.

Drugs acting on digestive system-carminatives, digest ants, Bitters, Antacids and drugs used in peptic ulcer, purgatives, and laxatives, Antidiarrhoeals, Emetics, Anti-emetics, Antispasmodics.

Chemotherapy of microbial diseases:

Urinary antiseptics, sulphonamides, penicillin, streptomycin, Tetracyclines and other antibiotics. Antitubercular agents, Antifungal agents, antiviral drugs, anti-leprotic drugs.

Chemotherapy of protozoal diseases, Anthelmintic drugs.

Chemotherapy of cancer.

Disinfectants and antiseptics.

8. PHARMACEUTICAL JURISPRUDENCE

05 marks

Pharmacy Act, 1948-The General study of the pharmacy Act with special reference to Education Regulations, Working of state and central councils, constitution of these councils and functions, Registration procedures under the Act.

The Drugs and Cosmetics Act, 1940-General study of the Drugs and cosmetics Act and the Rules there under. Definitions and salient features related to retail and whole sale distribution of drugs. The powers of Inspectors, the sampling procedures and the procedure and formalities in obtaining licenses under the rule. Facilities to be provided for running a pharmacy effectively. General study of the schedules with special reference to schedules C, C1, F, G, J, H, P and X and salient features of labeling and storage conditions of drugs.

9. HOSPITAL AND CLINICAL PHARMACY

10 marks

Drug Distribution system in Hospitals. Out-patient service, In-patient services- types of services detailed discussion of unit Dose system, Floor ward stock system, satellite pharmacy services, central sterile services, Bed side pharmacy.

Nomenclature and uses of surgical instruments and Hospital Equipments and health accessories.
P.T.C.(Pharmacy Therapeutic Committee)

Hospital Formulary system and their organization, functioning, composition.

Drug Information service and Drug Information Bulletin.

Disease, manifestation and patho-physiology including salient symptoms to understand the disease like Tuberculosis, Hepatitis, Rheumatoid Arthritis, Cardio-vascular diseases, Epilepsy, Diabetes, Peptic Ulcer, Hypertension.

Physiological parameters with their significance.

Drug Interactions: Definition and introduction. Mechanism of Drug Interaction. Drug-drug interaction with reference to analgesics, diuretics, cardiovascular drugs, Gastro-intestinal agents. Vitamins and Hypoglycemic agents. Drug-food interaction.

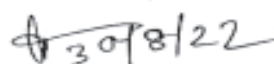
Adverse Drug Reaction: Definition and significance. Drug-Induced diseases and Teratogenicity.

Drugs in Clinical Toxicity- Introduction, general treatment of poisoning, systemic antidotes, Treatment of Insecticide poisoning, heavy metal poison, Narcotic drugs, Barbiturate, Organo-phosphorus poisons.

Drug dependences, drug abuse, addictive drugs and their treatment, complications.

Bio-availability of drugs, including factors affecting it.

Patient Counselling, Rational use of drug, Therapeutic Drug Monitoring and Pharmacovigilance.


Deputy Secretary to the
Government of Tripura